

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 03-309727 (71)Applicant : SHARP CORP

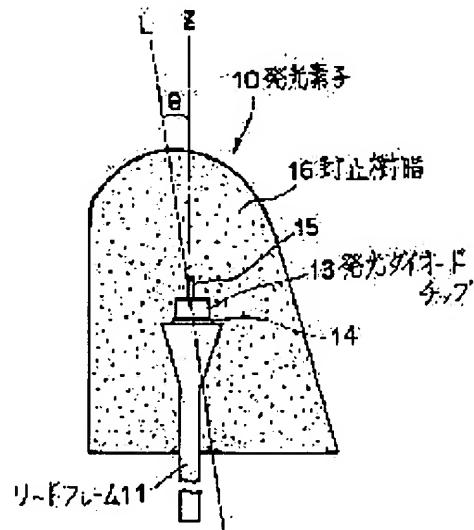
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(54) LIGHT EMITTING DIODE

(57)Abstract:

PURPOSE: To enable the brightest direction of a light emitting element to be tilted without inclining a substrate or forming a lead so as to control an optical axis.

CONSTITUTION: A light emitting diode chip 13 mounted on a lead frame 11 is sealed up with a transparent resin 16 which serves also as an optical lens. The optical axis L of the sealing resin lens 16 is tilted against a center axis z of the lead frame 11. As a result, the brightest direction of the light emitting element 10 is tilted against the center axis z of the lead frame 11.



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